

Figure 1

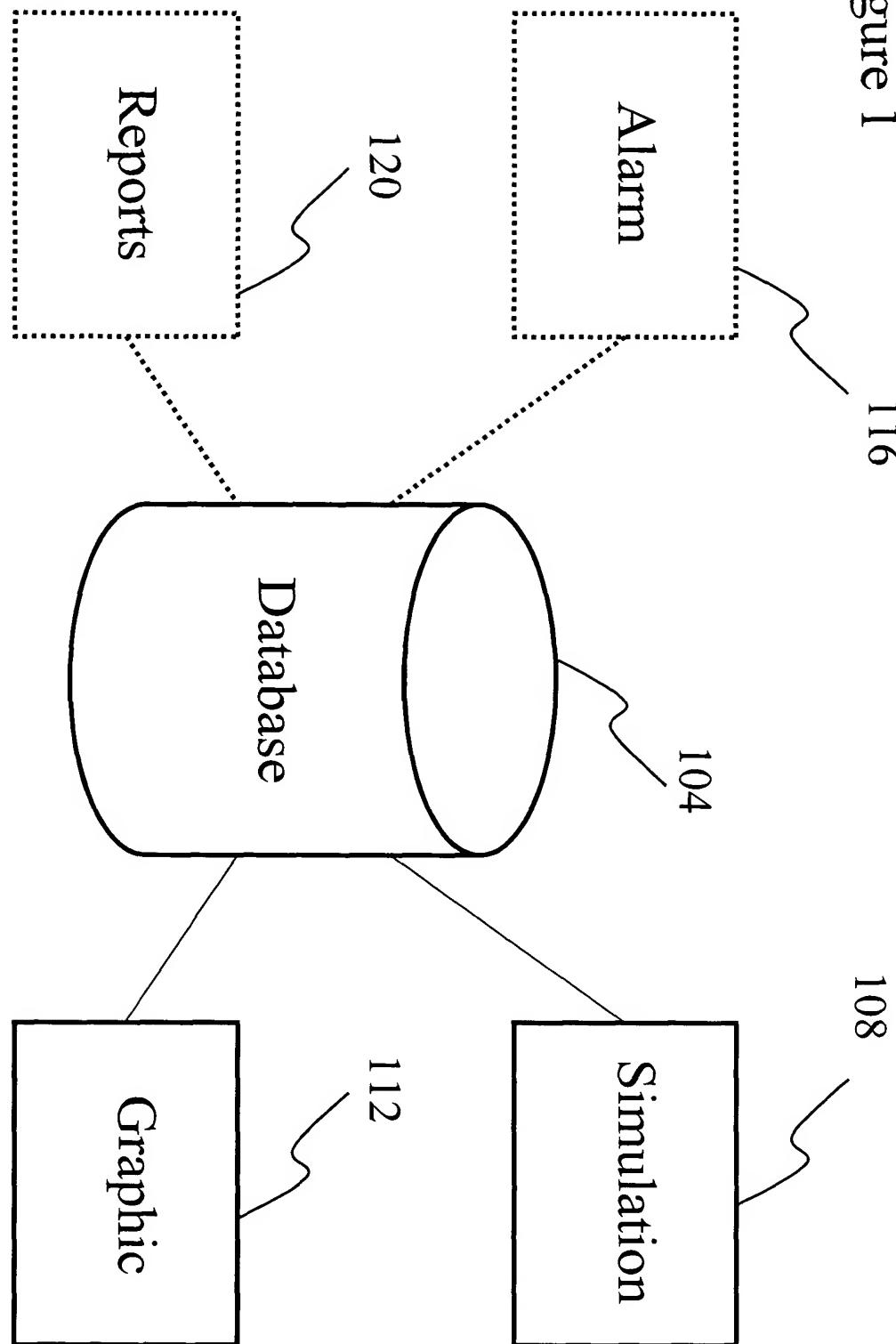
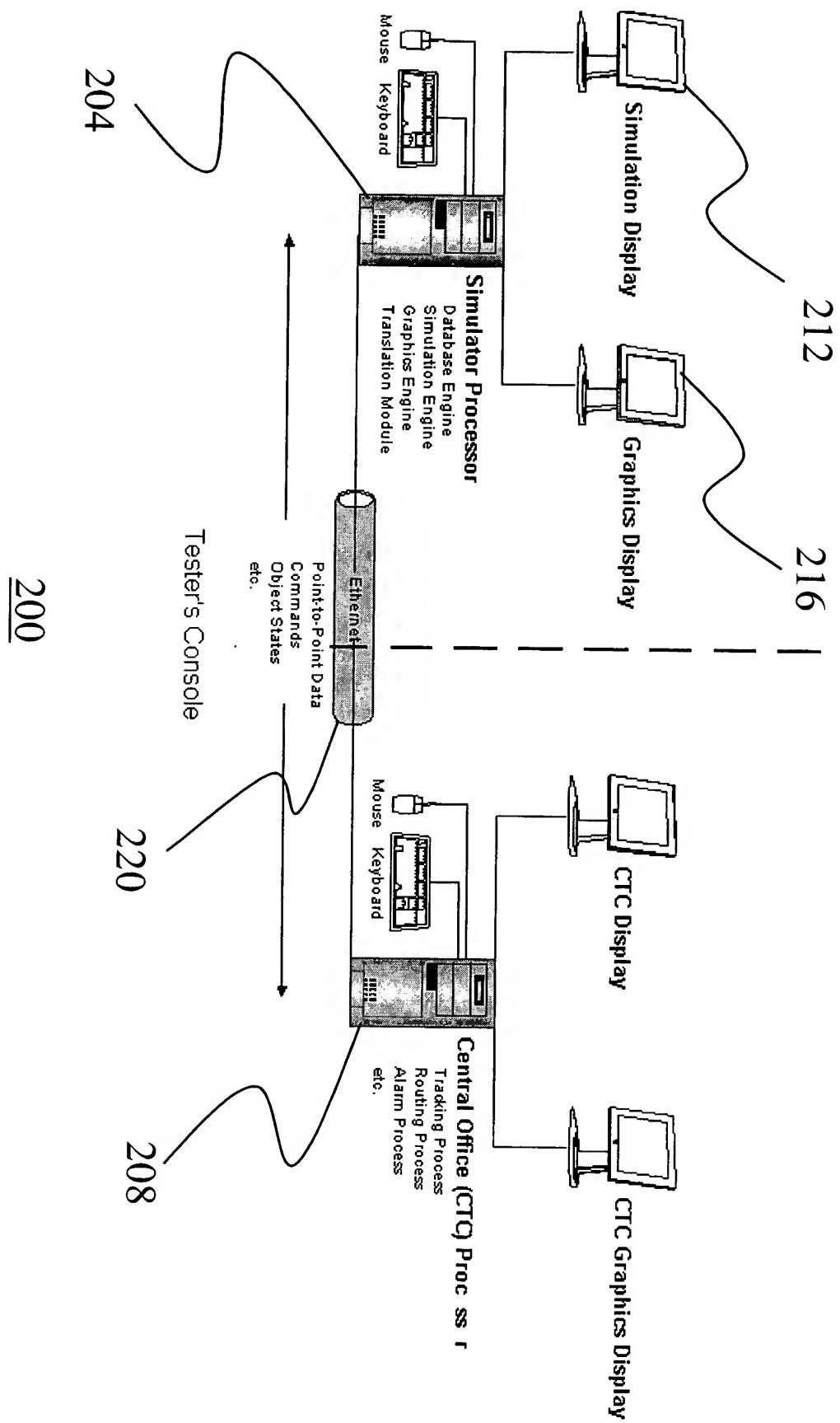


Figure 2



204

200

220

208

212

216

Figure 3

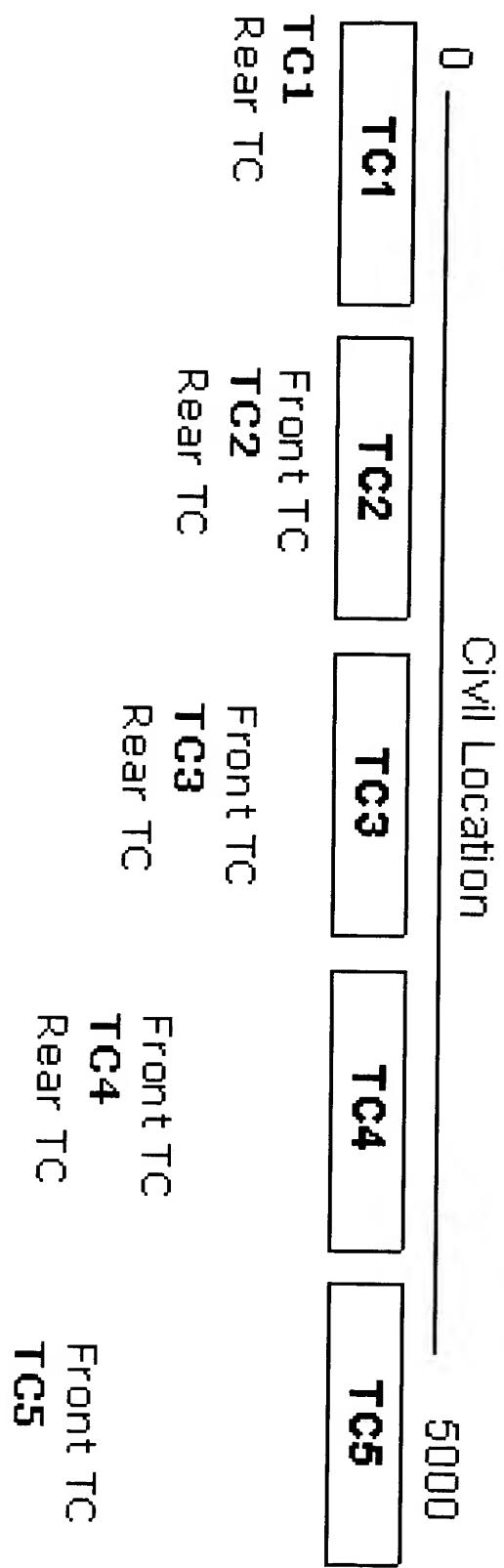
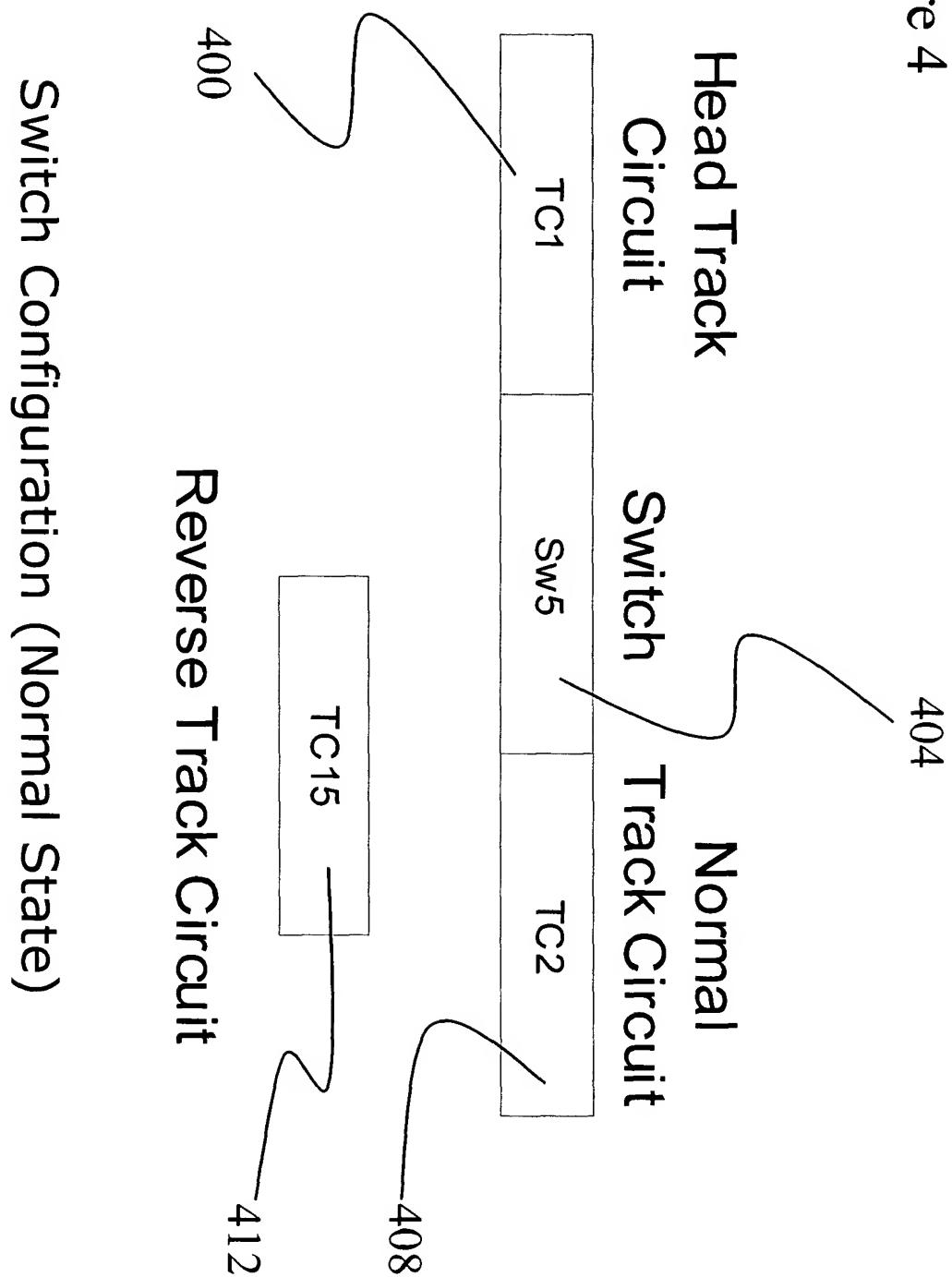
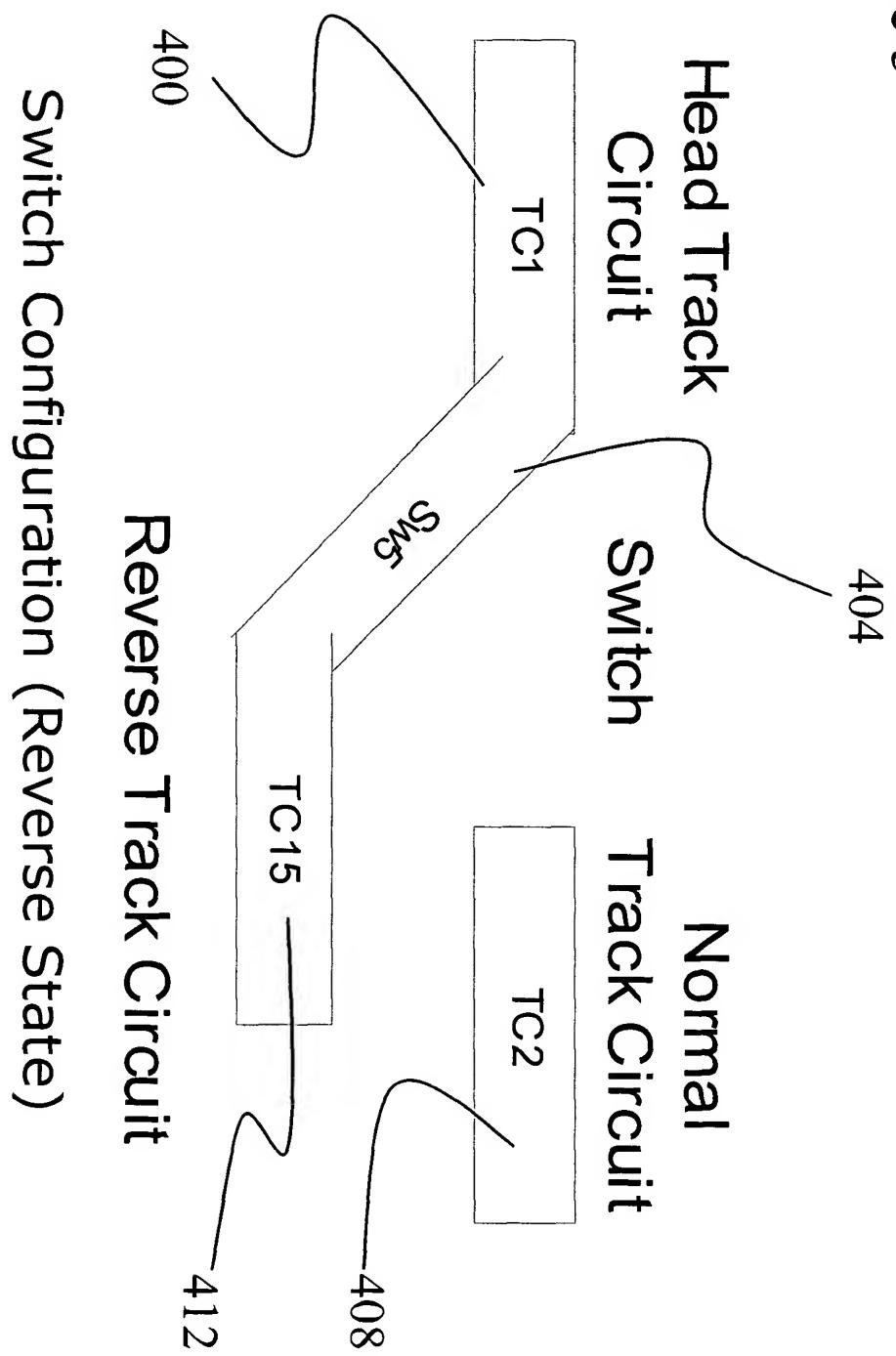


Figure 4



Switch Configuration (Normal State)

Figure 5



Switch Configuration (Reverse State)

Figure 6

600

612

Bahn Dimension Database Engine																																													
Line/Siding Data Station/Platform Data Track Circuit Data Grades Tab Curves Tab Switch Tab Signal Tab Route Tab Grade Crossing Tab																																													
TRACK CIRCUIT Track Circuit Name: 35T Line: Can_T2 Station: X Layout Start Location: 24456 End Location: 28957.99 Front TC: IBT Can_T2 CP05 Rear TC: IT Can_T2 CP05 Speed Configuration <table border="1"> <thead> <tr> <th>Start</th> <th>End</th> <th>Direction</th> <th>Normal</th> <th>Limited</th> <th>Medium</th> <th>Slow</th> <th>Restricted</th> <th>Add Speed Code</th> </tr> </thead> <tbody> <tr> <td>24456.00</td> <td>26456.00</td> <td>INC</td> <td>60</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td><input type="button" value="Modify Speed Code"/></td> </tr> <tr> <td>26456.00</td> <td>28052.00</td> <td>INC</td> <td>55</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td><input type="button" value="Delete Speed Code"/></td> </tr> <tr> <td>28052.00</td> <td>28957.99</td> <td>INC</td> <td>60</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td><input type="button" value="Delete"/></td> </tr> </tbody> </table> Start End Direction Normal Limited Medium Slow Restricted										Start	End	Direction	Normal	Limited	Medium	Slow	Restricted	Add Speed Code	24456.00	26456.00	INC	60	0	0	0	0	<input type="button" value="Modify Speed Code"/>	26456.00	28052.00	INC	55	0	0	0	0	<input type="button" value="Delete Speed Code"/>	28052.00	28957.99	INC	60	0	0	0	0	<input type="button" value="Delete"/>
Start	End	Direction	Normal	Limited	Medium	Slow	Restricted	Add Speed Code																																					
24456.00	26456.00	INC	60	0	0	0	0	<input type="button" value="Modify Speed Code"/>																																					
26456.00	28052.00	INC	55	0	0	0	0	<input type="button" value="Delete Speed Code"/>																																					
28052.00	28957.99	INC	60	0	0	0	0	<input type="button" value="Delete"/>																																					
Start Location End Location Front TC Rear TC																																													

Track Circuit Name	Line	Station	Type	SOL	EOL	PLAT	TRIG	STIC	Start Location	End Location	Front TC	Rear TC
102T	Can_T2	CP05	BLOCK						10434.00	11474.99	142T	9A15
142T	Can_T2	x	BLOCK						11475.00	12695.99	162T	
162T	Can_T2	x	BLOCK						12696.00	13687.99	1T	142T
1T	Can_T2	CP17	BLOCK						13688.00	15182.99	262T	162T
262T	Can_T2	x	BLOCK						15183.00	19187.99	9T	1T
9T	Can_T2	CP35	BLOCK						19188.00	19695.99	9Ta	262T
91a	Can_T2	CP35	BLOCK						19696.00	20360.99	332T	9T
332T	Can_T2	CP35	BLOCK						20361.00	22760.99	1BT	9Ta
1BT	Can_T2	CP35	STATION			PLAT			22761.00	23665.99	1Tb	
1Tb	Can_T2	CP35	BLOCK						23666.00	24006.99	11	1BT
1T	Can_T2	CP35	BLOCK						24007.00	24495.99	351T	
ER1T	Can_T2	x	BLOCK						24496.00	28957.99	1BT	1T
1BT	Can_T2	CP45	BLOCK	EOL					28958.00	29838.00	NONE	351T
CA_1N	Can_T1	CP05	BLOCK	SOL					29839.00	2799.99	CA_2N	NONE
CA_2N	Can_T1	CP05	STATION	PLAT					2800.00	3224.99	CA_3N	CA_1N
CA_3N	Can_T1	CP05	BLOCK						3225.00	3277.99	CA_4N	CA_2N
CA_4N	Can_T1	CP05	BLOCK						3278.00	3324.99	CA_5N	CA_3N
CA_5N	Can_T1	CP05	BLOCK						3325.00	3399.99	CA_6N	CA_4N
CA_6N	Can_T1	CP05	BLOCK						3400.00	3451.99	CA_7N	CA_5N

604

608

Figure 7

700

Bahn Dimension Database Engine

Line Siding Data | Station/Platform Data | Track Circuit Data | Grabs Tab | Curves Tab | SwitchTab | Signal Tab | Route Tab | Grade Crossing Tab

GRADE CROSSINGS

Name	Cove						
A&P Name	DOI #702-97P						
Location	<table border="1"> <tr> <td>Station</td> <td>36th</td> </tr> <tr> <td>Line</td> <td>LS</td> </tr> <tr> <td>Distance</td> <td>281.02</td> </tr> </table>	Station	36th	Line	LS	Distance	281.02
Station	36th						
Line	LS						
Distance	281.02						

CrossingType	<input checked="" type="radio"/> Cross Buck <input type="radio"/> Cross Signs <input type="radio"/> Catenary Signs
Direction	<input checked="" type="radio"/> LEFT <input type="radio"/> RIGHT

Triple Point

Station	36th
Line	LS
Distance	240.09

Direction	<input checked="" type="radio"/> INCREASING <input type="radio"/> DECREASING
-----------	---

Station	36th
Line	IC
Distance	32.00

Direction	<input checked="" type="radio"/> INCREASING <input type="radio"/> DECREASING
-----------	---

Station	---
Line	---
Distance	0

Direction	<input checked="" type="radio"/> INCREASING <input type="radio"/> DECREASING
-----------	---

...Select...

...Select...

...Select...

...Select...

Delay

Activation Time

GrName	CrossingType	LineSiding	Station	Distance	Orientation	Delay	Activation Time
River Road	CROSS-BUCK	RS	URTC	14082.00	RIGHT	5	60
Conrail	CROSS-BUCK	RS	36th	19663.00	RIGHT	5	60
Coors	CROSS-BUCK	IS	RT73	28102.00	RIGHT	5	60
Bethpage	CROSS-BUCK	IC	RT73	31654.00	RIGHT	5	60
Hoboken	CROSS-BUCK	Penn	RT73	37362.00	RIGHT	5	60
Market/Public	CROSS-BUCK	IC	Palm	43095.00	RIGHT	5	60
Park	CROSS-BUCK	IC	Palm	44091.00	RIGHT	5	60
Chestnut	CROSS-BUCK	IC	Palm	44845.00	RIGHT	5	60

OK Cancel Apply Help

Figure 8

800

Urban Dimension Simulation Engine (Transit Performance Simulator)
Simulation

Start Time 14:00:00 Duration 00:32:49 Current Time 14:32:49

Distance

KENN=BE=C<5>

STOP

Objects	Train	Entry Time	Trip	Loops	Vehicles			
co_WRTC5	0.00 - 183.60							
co_WRTC7	0.00 - 182.98							
co_WRTC9	0.00 - 386.64							
co_38th9	0.00 - 183.60							
co_Hanil	176598.00 - 176903.00							
co_Tren5	179534.00 - 179770.00							
co_Tren7	179534.00 - 179768.00							
yd_36th7	20409.00 - 21500.00							
yd_36th3	22000.00 - 23185.00							
yd_36TH3_1	UNOCCUPIED							
yd_36TH3_2	UNOCCUPIED							
SC 22761.00 - 23185.00 INC								
SC 22761.00 - 23185.00 DEC								
	Train	State	Speed	Line	Distance	OTC	Loops	Next Route
Limited								
Normal								
Medium								
Slow								
Restricted								
Grade Crossings								
Stations								
Trains								
NB_57	STOPPED	0.00	IC	51304.31	RITSI	1	2N-1_1051T	
NB_61	MOVING	37.92	IC	29948.64	36TS6	1	2N_581AT	
NB_60	MOVING	39.94	IC	130316.77	227IT	1	st_ROES	
NB_62	MOVING	24.24	IN	178455.40	3282T	1	45_3212T	
NB_63	DUELLING	0.00	RS	5025.00	AQDN1	1	st_AQDN	

804

Alarms	Time	Train	Alarm
Vehicle 2			
Left Door Closing			
Right Door Closing			

808

Figure 9

View Log						
Log Filename:		Log Type:		Time		
Nov23_155247.log		ALL		All Trains		
Time	Event	Train	Location	Stop	Close	Duration
00:01:52	Moving		IN	178212.01	IN	0.05
00:01:53	Moving		IN	178212.00	IN	0.01
00:04:53	ARRIVE	Hani_S	Hani	IN	IN	0.30
00:04:53	Dwelling	Hani_S	Hani	IN	IN	35
00:04:54	Dwelling		IN	178212.00	IN	0.00
00:04:54	Dwelling		IN	178212.00	IN	0.00
00:04:55	Dwelling		IN	178212.00	IN	0.00
00:04:55	Dwelling		IN	178212.00	IN	0.00
00:04:56	Dwelling		IN	178212.00	IN	0.00
00:04:56	Dwelling		IN	178212.00	IN	0.00
00:04:57	Dwelling		IN	178212.00	IN	0.00
00:04:57	Dwelling		IN	178212.00	IN	0.00
00:04:58	Dwelling		IN	178212.00	IN	0.00
00:04:58	Dwelling		IN	178212.00	IN	0.00
00:04:59	Dwelling		IN	178212.00	IN	0.00
00:04:59	Dwelling		IN	178212.00	IN	0.00
00:05:00	Dwelling		IN	178212.00	IN	0.00
00:05:01	Dwelling		IN	178212.00	IN	0.00
00:05:02	Dwelling		IN	178212.00	IN	0.00
00:05:02	Dwelling		IN	178212.00	IN	0.00
00:05:03	Dwelling		IN	178212.00	IN	0.00
00:05:03	Dwelling		IN	178212.00	IN	0.00
00:05:04	Dwelling		IN	178212.00	IN	0.00
00:05:05	ROUTE REQ	1S_3212T	Hani	IN	IN	35
00:05:05	ROUTE REQ	1H_3212T	Hani	IN	IN	35
00:05:05	ROUTE REQ	1MS_3212T	Cass	IN	IN	35
00:05:05	ROUTE REQ	3212T	Cass	IN	IN	35
00:05:05	Dwelling		IN	178212.00	IN	0.00
00:05:05	Dwelling		IN	178212.00	IN	0.00
00:05:06	Dwelling		IN	178212.00	IN	0.00
00:05:06	Dwelling		IN	178212.00	IN	0.00
00:05:07	Dwelling		IN	178212.00	IN	0.00
00:05:07	Dwelling		IN	178212.00	IN	0.00
00:05:07	Dwelling		IN	178212.00	IN	0.00
00:05:08	Dwelling		IN	178212.00	IN	0.00
00:05:08	Dwelling		IN	178212.00	IN	0.00
00:05:09	Dwelling		IN	178212.00	IN	0.00
00:05:09	Dwelling		IN	178212.00	IN	0.00
00:05:10	ROUTE SET	1S_3212T	Hani	IN	IN	35
00:05:10	ROUTE SET	1H_3212T	Hani	IN	IN	35
00:05:10	ROUTE SET	1MS_3212T	Cass	IN	IN	35
00:05:10	ROUTE SET	3212T	Cass	IN	IN	35
00:05:11	Dwelling		IN	178212.00	IN	0.00
00:05:11	Dwelling		IN	178212.00	IN	0.00
00:05:12	Dwelling		IN	178212.00	IN	0.00
00:05:12	Dwelling		IN	178212.00	IN	0.00
00:05:13	Dwelling		IN	178212.00	IN	0.00
00:05:13	Dwelling		IN	178212.00	IN	0.00
00:05:13	PROCEED	4S	Hani_S	IN	IN	35
00:05:13	DEPART	Hani_S	Hani	IN	IN	35
00:05:13	Moving		IN	178211.95	IN	0.14
00:05:13	Moving		IN	178211.78	IN	0.30
00:05:13	Moving		IN	178211.49	IN	0.46
00:05:14	Moving		IN	178211.49	IN	0.30
00:05:14	Moving		IN	178211.49	IN	0.30
00:05:14	Moving		IN	178211.49	IN	0.30

Figure 10

KENN= BAHN DIMENSION <3>			
Calculated Passenger Flow	From	To	
ARRIVALS		8:01	9:00
Vehicle Capacity		184	Passenger Flow
SB Arrivals	6		1104
NB Arrivals	6		1104
SB Departures	0		0
NB Departures	0		0

Ergebnisliste (Arrival and departure counts)